# 2023-03-13 Offline batch failed continously whole day

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| **Environment** | Production |
| **Description** | Brief Issue Description:  Due to the change of A2W in plfoinspark job. Validation didn't passed and offline job has been failed continously. |
| **Reviewed by** | [Ernas, Ilker](file:////display/~iernas) [Tainov, Rinat](file:////display/~rtainov) [Makhmutov, Timur](file:////display/~tmakhmutov) |
| **Problem Report** | **No incident ticket because there is no alarm.**  ATB  Timeline (**MST**):  12-03-2023:  Error happened with pl\_v2  During a day Timur pinged in slack Rinat  13-03-2023  Around 08:00 → Timur has realized that there are errors in offline batch processing of pl\_v2 (there were 5 item difference in the validation) and sales\_v2 table. The job was tested in prod for sales\_v2 table only.  Around 12:00 → version is changed to previous version but batches were already created by jobInitializor with buggy version.  After 13:00 → [Tainov, Rinat](file:////display/~rtainov)  deleted all jobs that are created with buggy version.  Rinat fixed code with filters, filtering was in wrong place in the job. And re-run all jobs for previous dates. |
| **FCI** | no other jobs(like promoted display, organic, sales\_v2) are able to run. For the 09 Mar 2023 accurate data can not be shown till 13 Mar 2023 for all of these data. |
| **Domain Impacted** | Advertising Promoted Listings Advanced CPC  Advertising Promoted Listings Standart |
| **Revenue Impact** | - |
| **Triage** | issue detected by [Makhmutov, Timur](file:////display/~tmakhmutov) in logs of production batch pool. |
| **Examine** | Application logs the counts of validation and output. 5 item creates the difference because in the version 1.14.  DSS data :        24313040790 spark output :  24313040785 online :             24450979516 |
| **Root Cause** | A change of ch query in plfofinspark is applied (which shouldn't). Even if it has to be applied the same change needs to be done in validation query (dataframe filtering). Since there is no integration test, it is not revealed. |
| **Cure** | * Roll back to the previous version. * [Tainov, Rinat](file:////display/~rtainov) fixed main branch with removing buggy code. Delete all active batches with previous meeting. * Later I re-run all previous dates |
| **Opportunities** | What can be improved   * Requirements for the change   + Describe business case better and add acceptance criteria. * Code review   + Improve test granularity to see code changes more explicitly in code review.   + High context in PRs describing business impact. * Code change   + ~~Even though there is a test set up, test are not added to this change.~~ The tests we added for sales\_v2 (in a wrong manner though). For pl\_v2 we don't have a test setup, which should be implemented together with tests.   + Additional documentation to check successful partition replacement succeeded when we tested the change. * Monitoring   + Alerts should be configured in a smart way (which should not create noise)   + Fix Alert not being triggered when job fails, when data is not in tables   + **Create an alert to assure that data is in clickhouse in 72 hours** * Environment   + Preprod environment can not be used. Improve preprod stability for clickhouse. * Automation   + Current release process requires a lot of attention, doesn't have easy (automated) rollback and takes a lot of time. |
| **Flow** | Data/Pool Dependencies  DSS → plofinsopark --X→ Clickhouse |
| **Rollback** |  |
| **Related items** |  |
| **Status** |  |
| **Follow ups** | 1. [Makhmutov, Timur](file:////display/~tmakhmutov) Follow up can we run a clickhouse query in Control Centre to trigger a pager duty alert 2. [Kamperman, Jasper](file:////display/~jkamperman) [Tatarnikov, Konstantin](file:////display/~ktatarnikov) make a proposal for replacement failure alerting 3. [Tatarnikov, Konstantin](file:////display/~ktatarnikov) [Tainov, Rinat](file:////display/~rtainov) create a doc with queries to check partitions in clickhouse, create Rinat a task to current sprint with zero points. 4. [Tainov, Rinat](file:////display/~rtainov) create integration test story for pl\_v2 as tech debt. 5. [Tainov, Rinat](file:////display/~rtainov) create a tech debt story to refactor big test to smaller gradual tests. 6. Prioritize [COLUMNAR-1827](https://jirap.corp.ebay.com/browse/COLUMNAR-1827) - 2/7 Staging Issue for Ads Resolved Fix the nucolumnar preprod environment. Follow up on preprod env [Tatarnikov, Konstantin](file:////display/~ktatarnikov) . 7. [Kisialiou, Uladzimir](file:////display/~ukisialiou) 4-5 put into offline automation initiative, Q2 plan. |